

FIG. 1A
 (PRIOR ART)

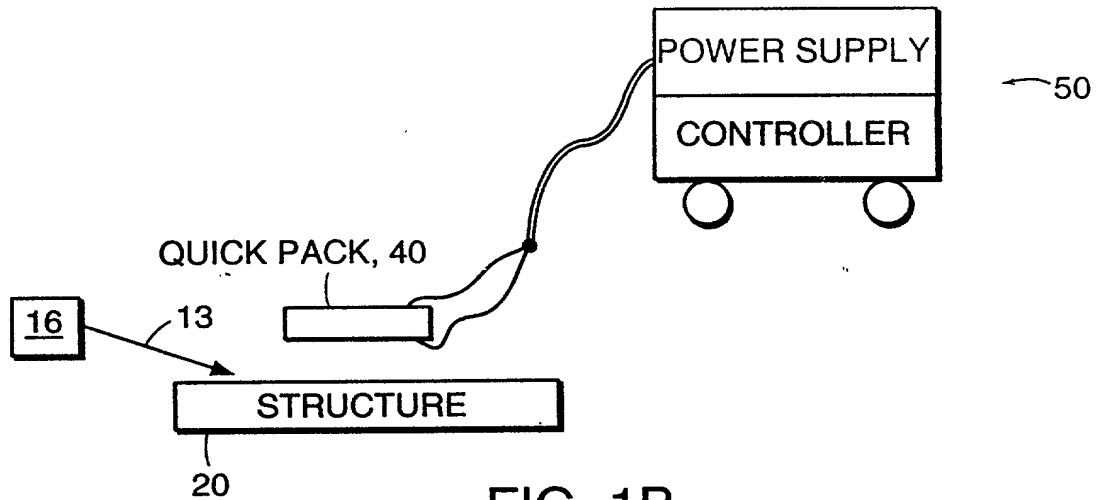


FIG. 1B

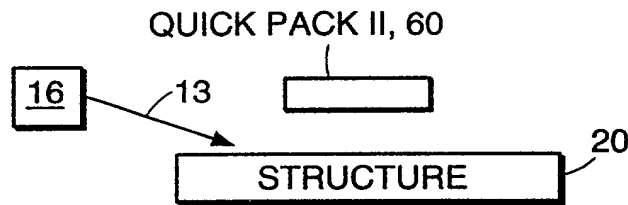


FIG. 1C

"P06920" 025025025US

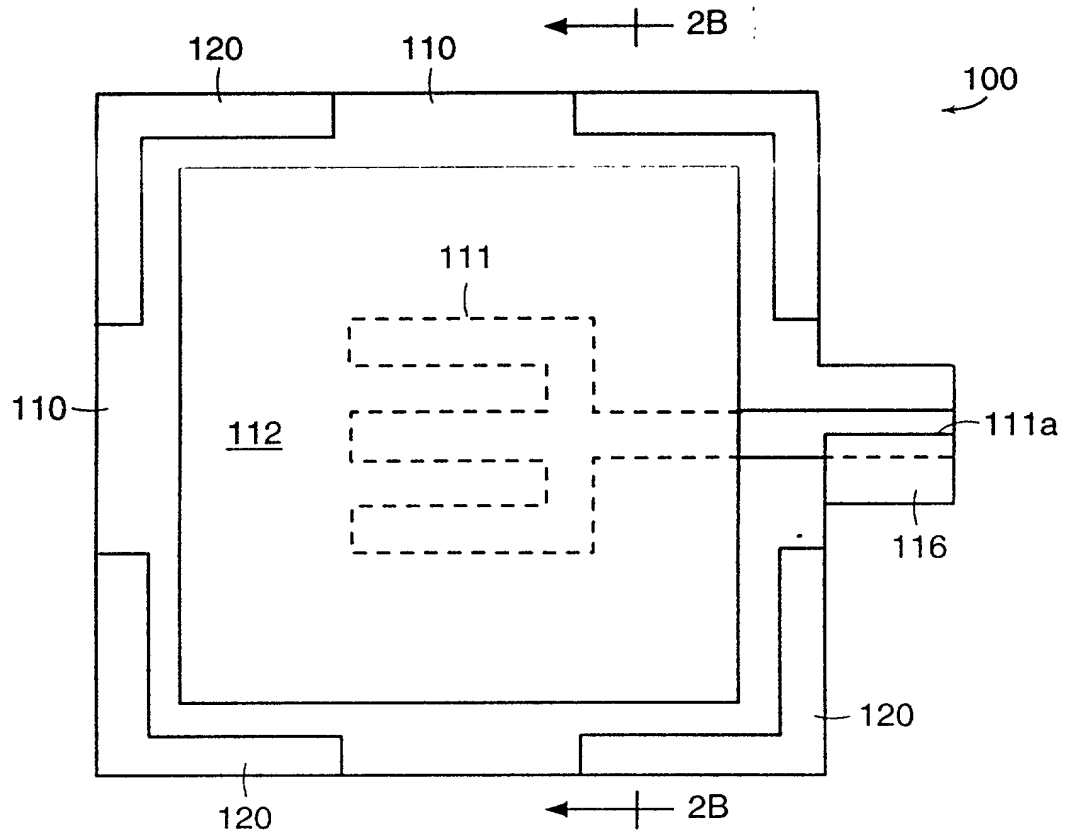


FIG. 2A

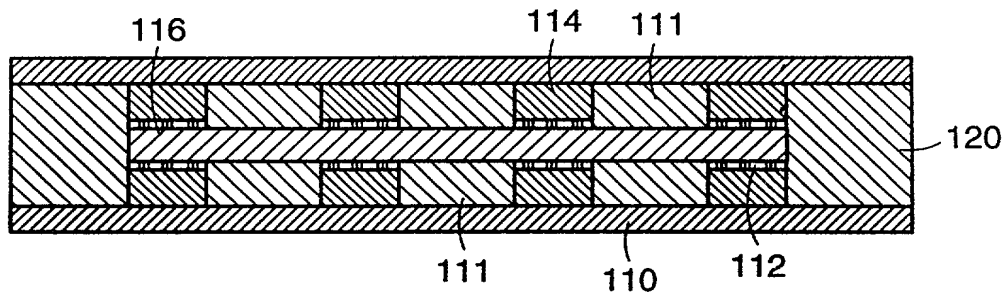


FIG. 2B

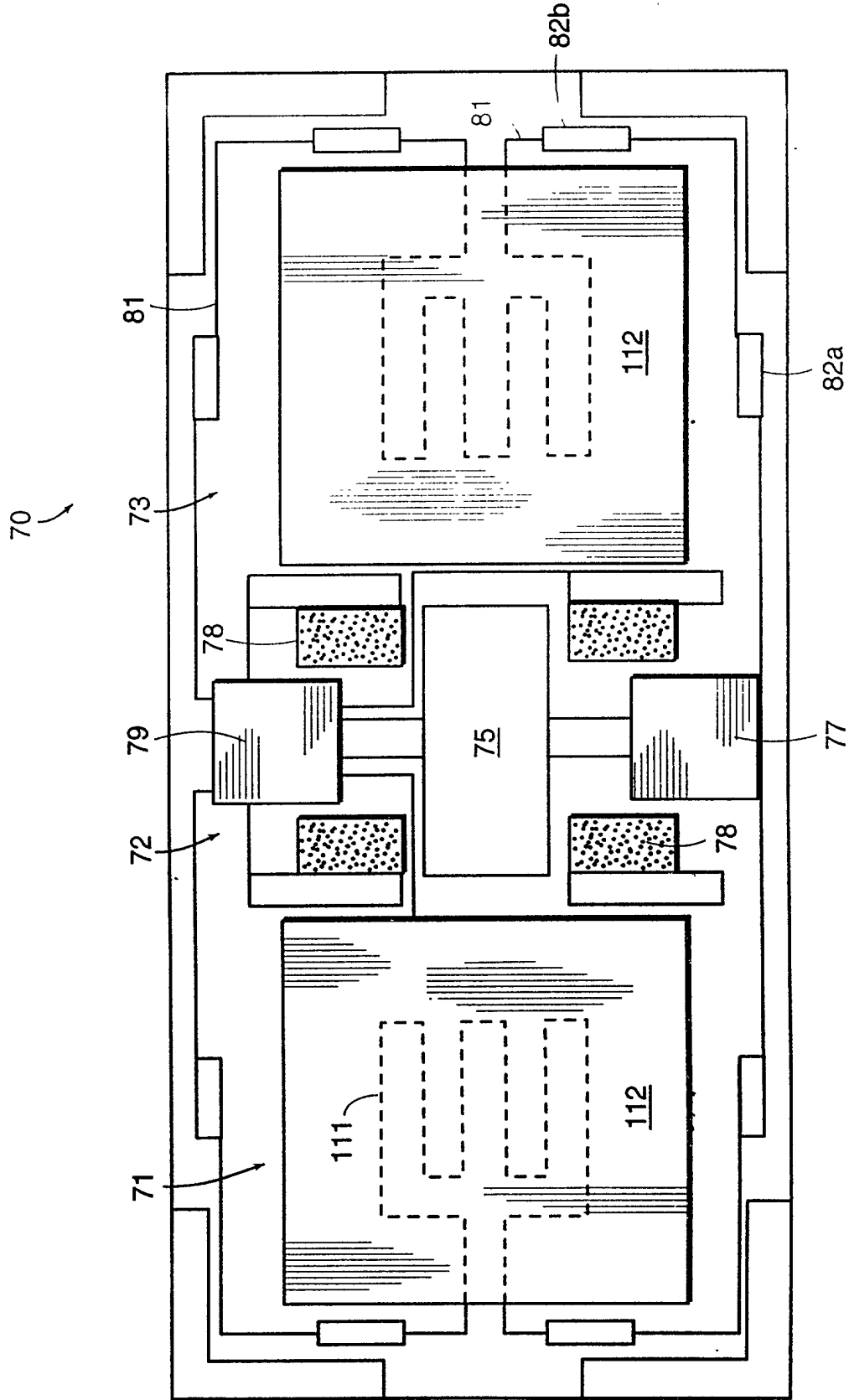


FIG. 2C

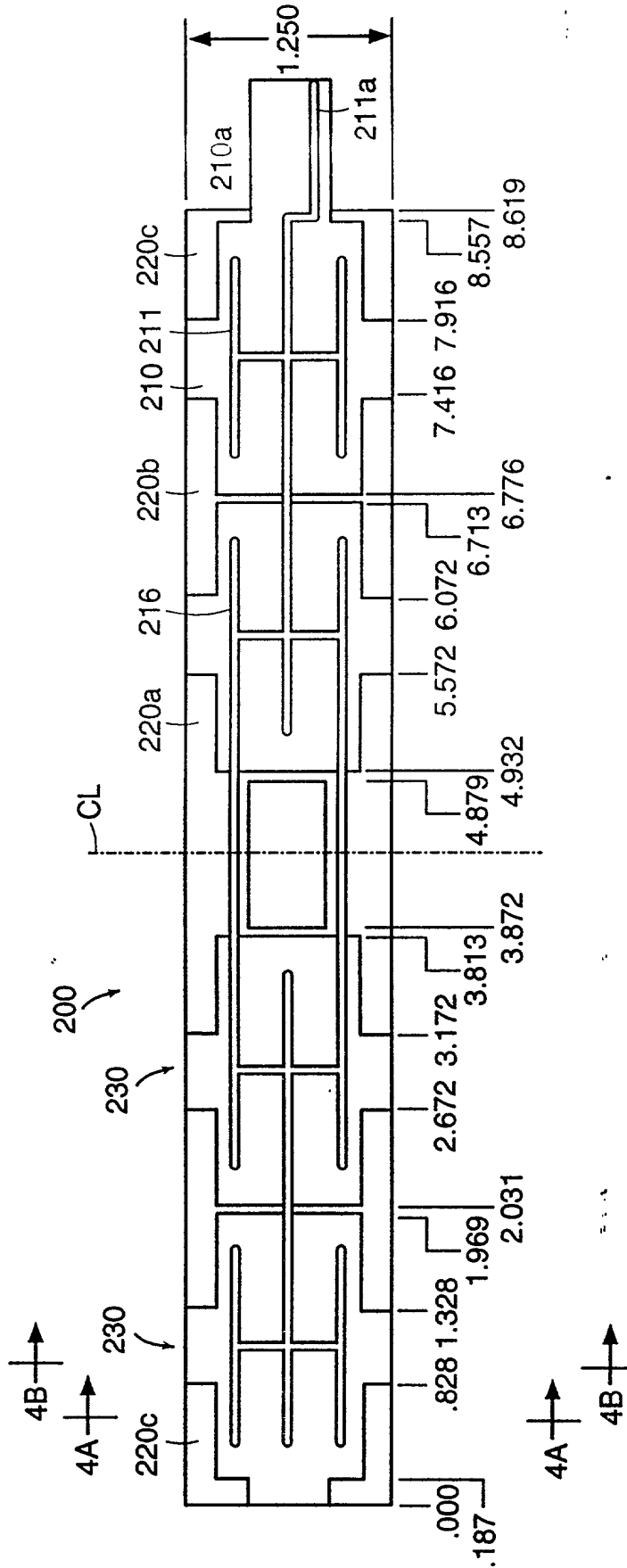


FIG. 3

706000" 02EE0860

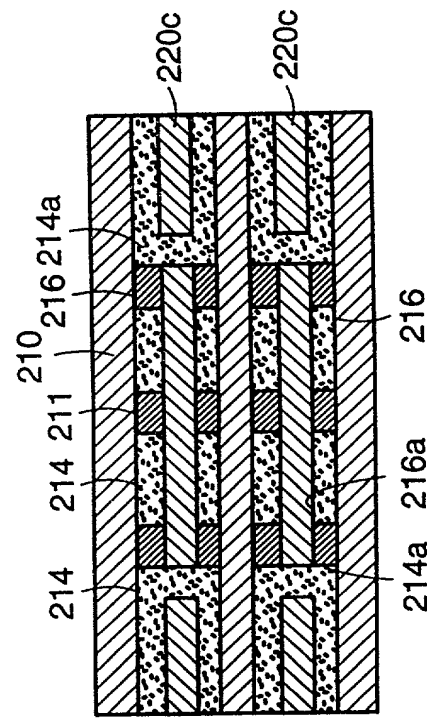


FIG. 4A

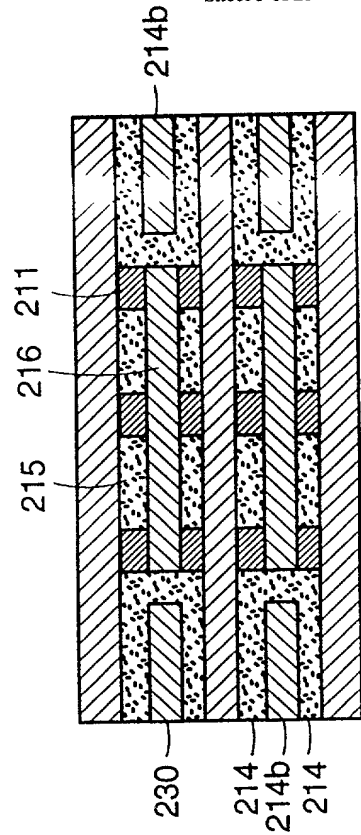


FIG. 4B

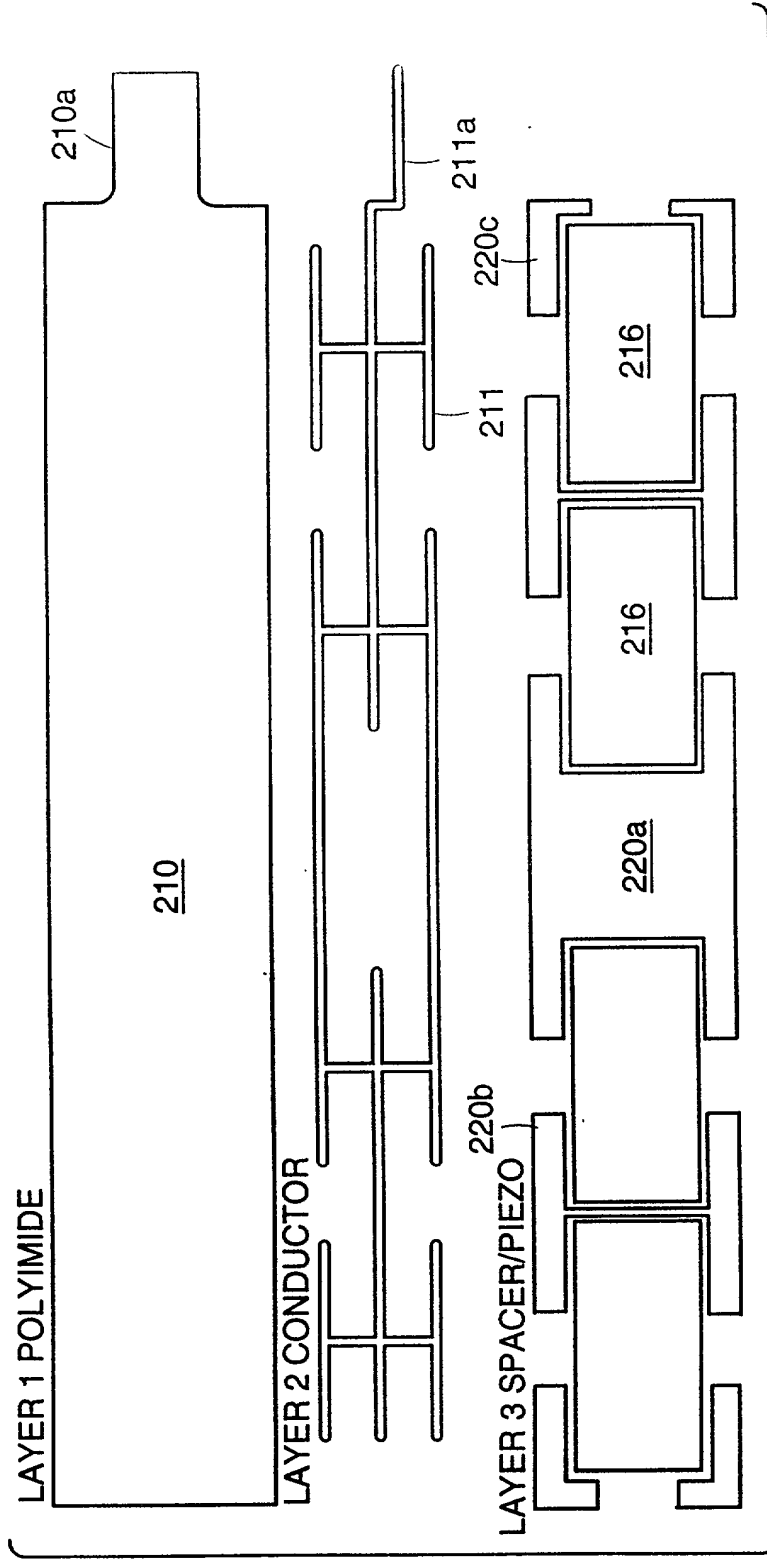


FIG. 5

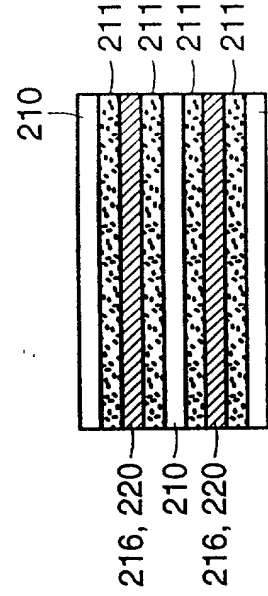


FIG. 5A

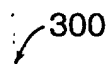
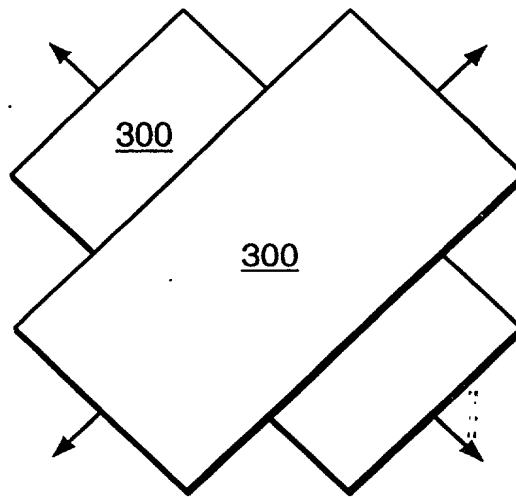


FIG. 7



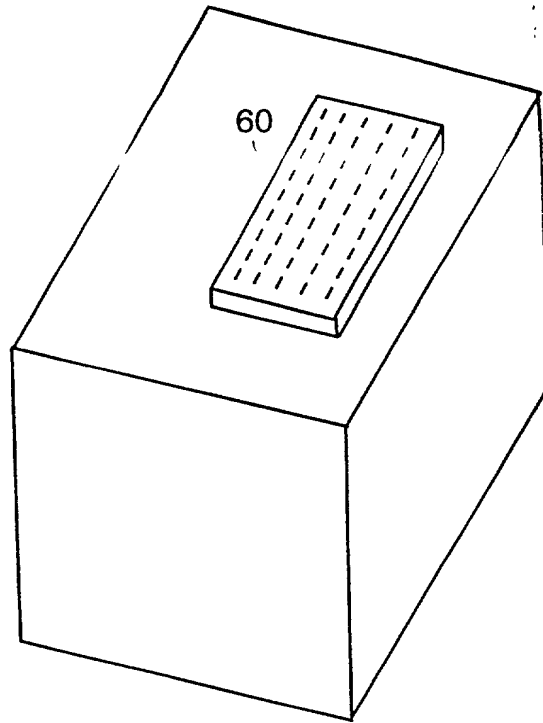


FIG. 8A

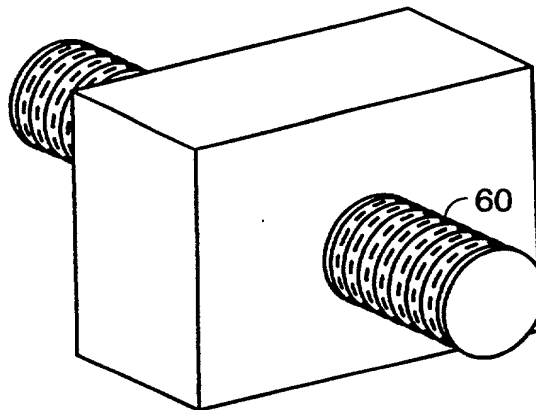


FIG. 8B

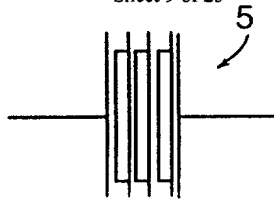


FIG. 9A

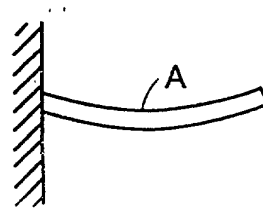


FIG. 9B



FIG. 9C

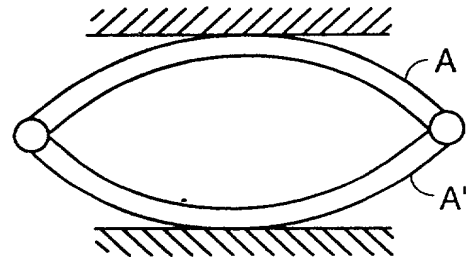


FIG. 9D

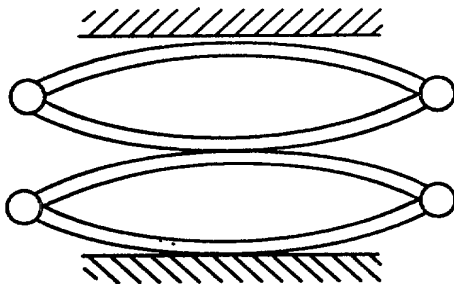


FIG. 9E

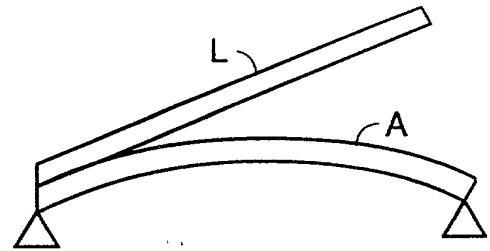


FIG. 9F

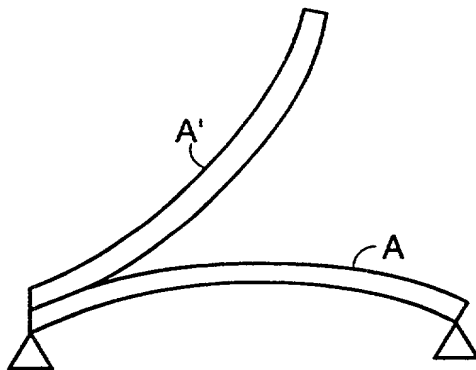


FIG. 9G

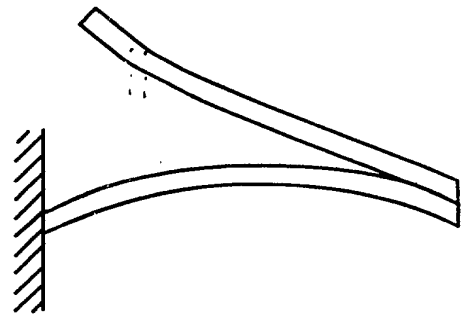


FIG. 9H

11660660

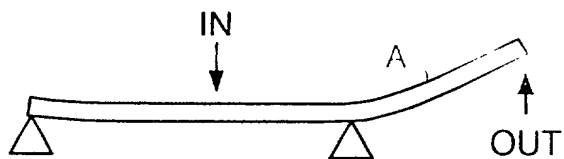


FIG. 9I

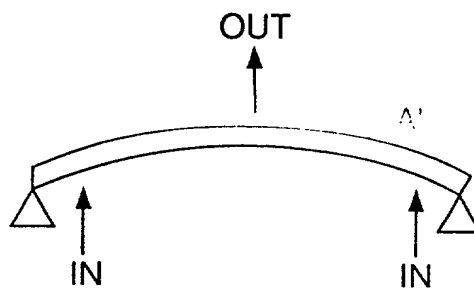


FIG. 9J

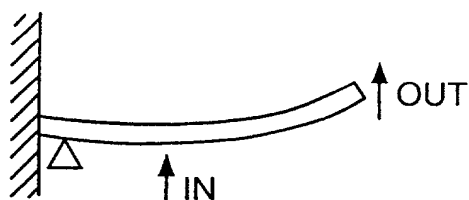


FIG. 9K

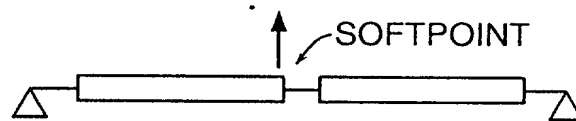


FIG. 9L

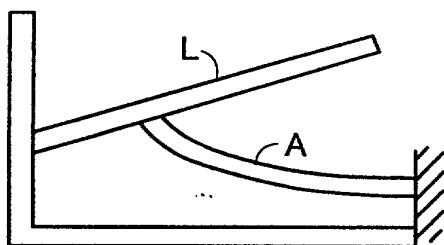


FIG. 9M

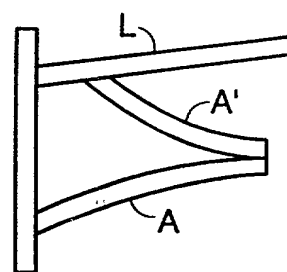


FIG. 9N

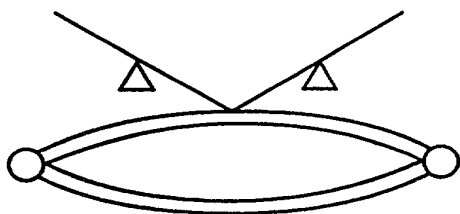


FIG. 9O

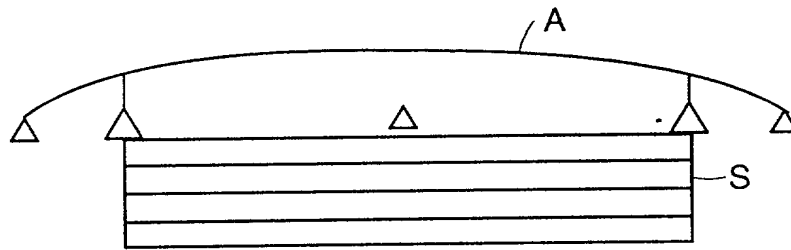


FIG. 9P

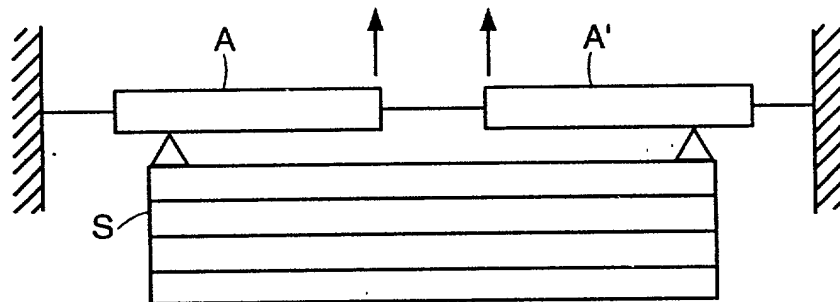


FIG. 9Q

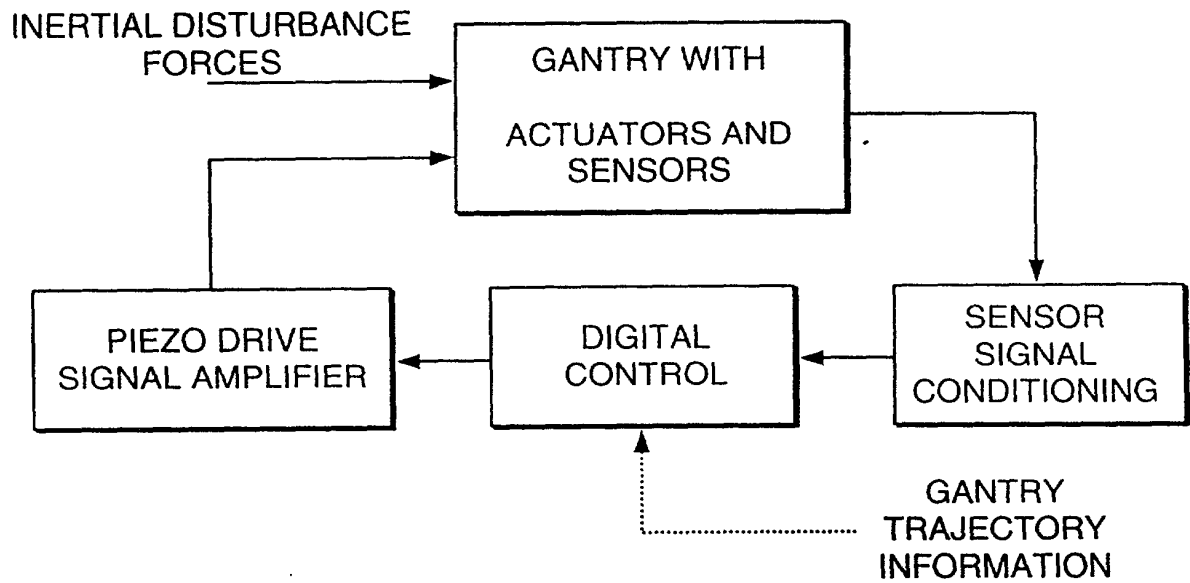


FIG. 10

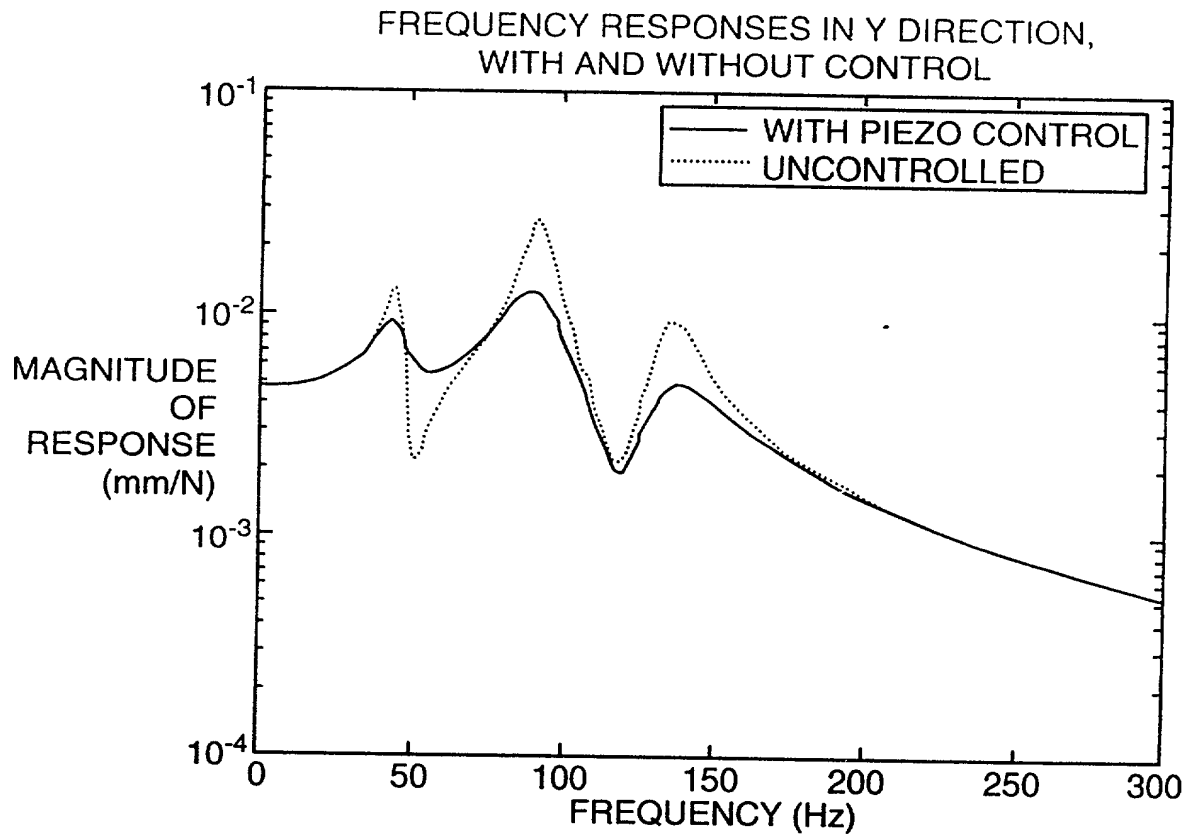


FIG. 11

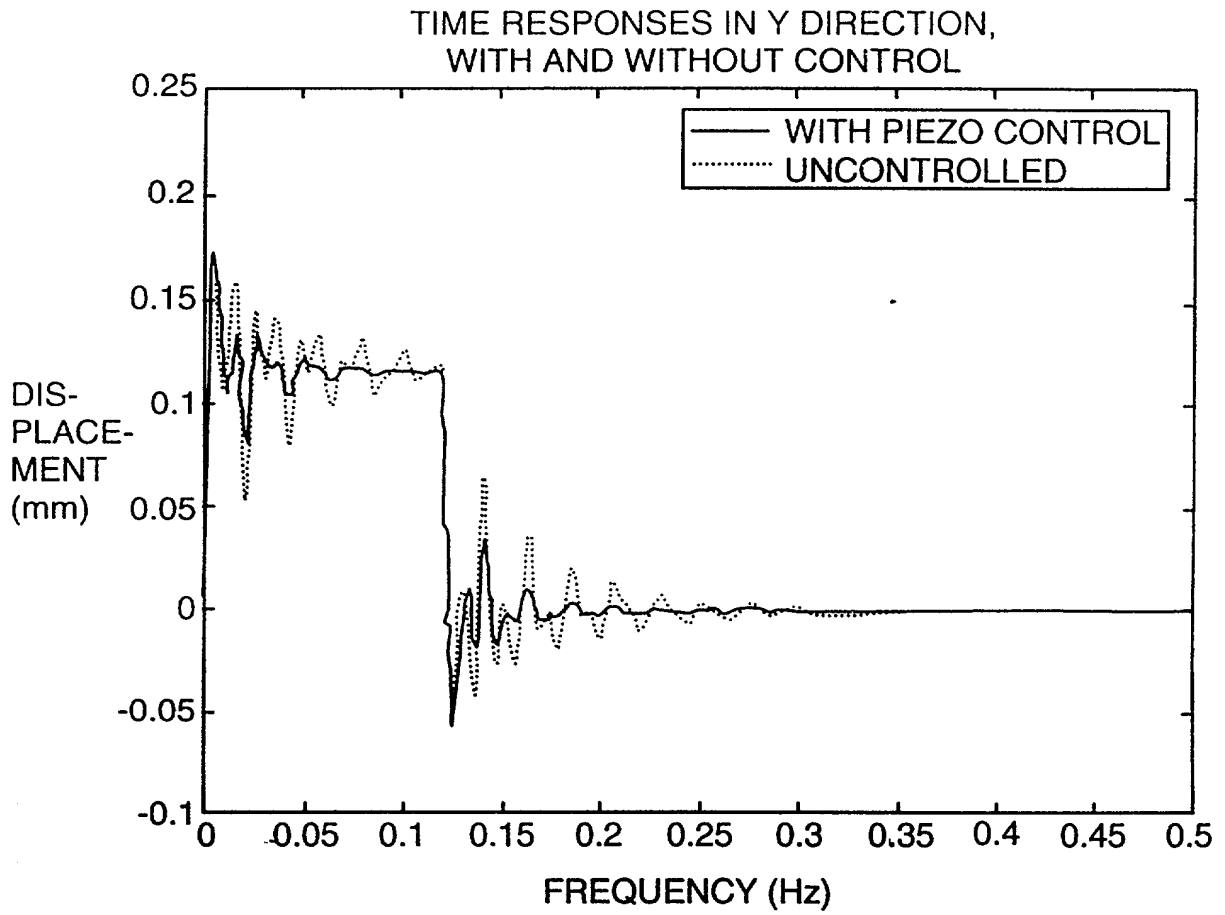


FIG. 12

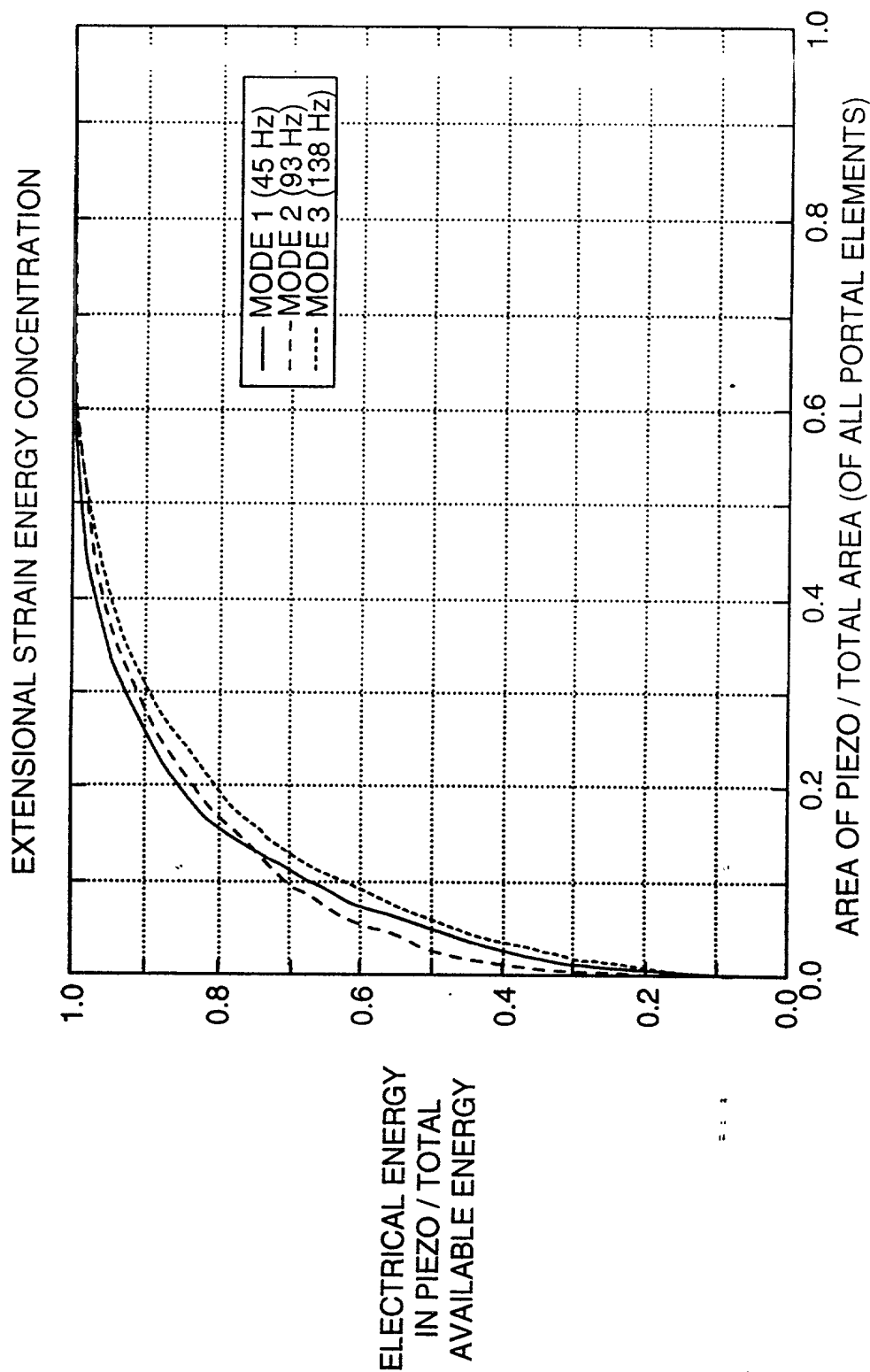


FIG. 13

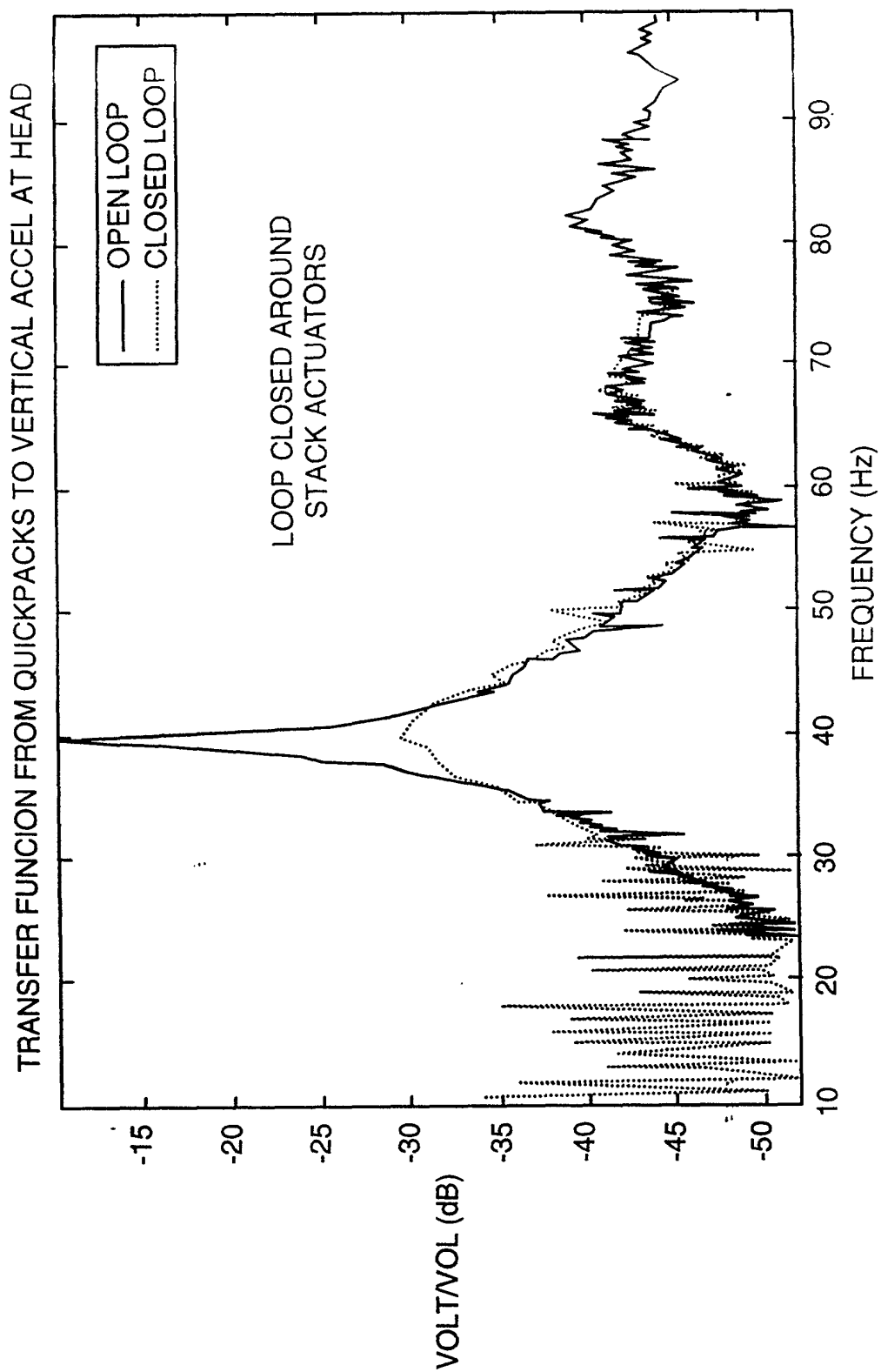


FIG. 14

FIG. 14

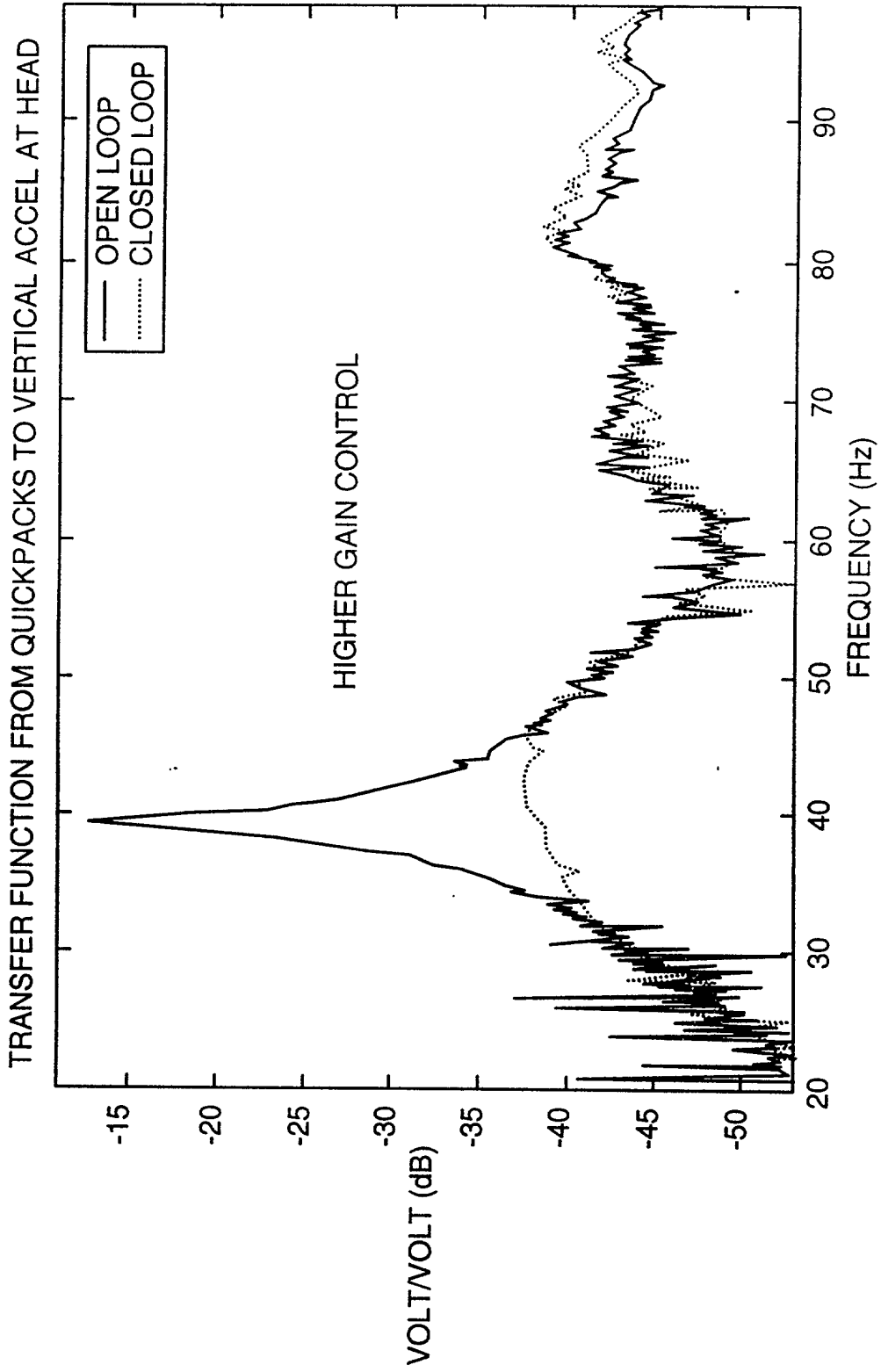


FIG. 15

1050000 0360360

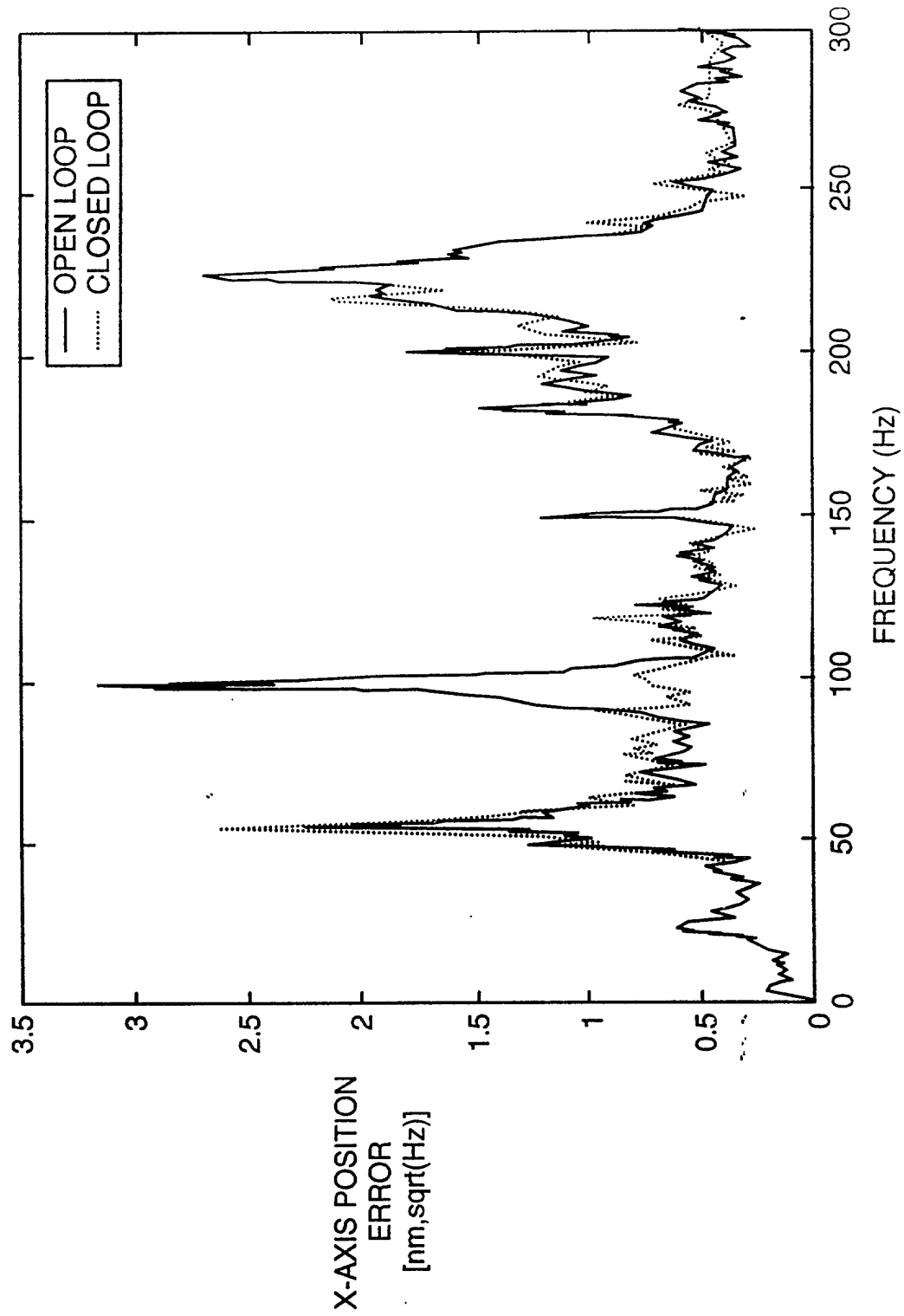


FIG. 16

FIG. 16

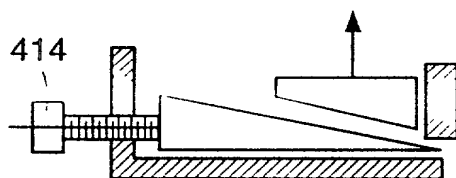


FIG. 17

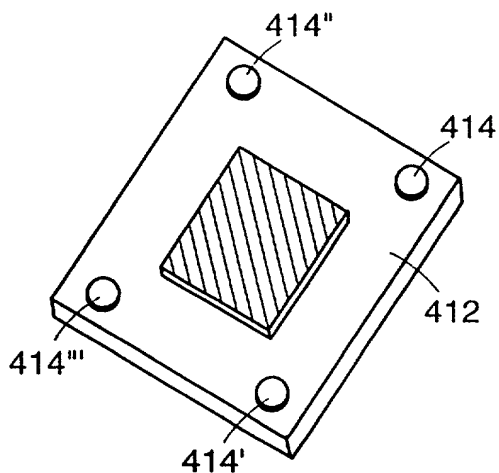


FIG. 18

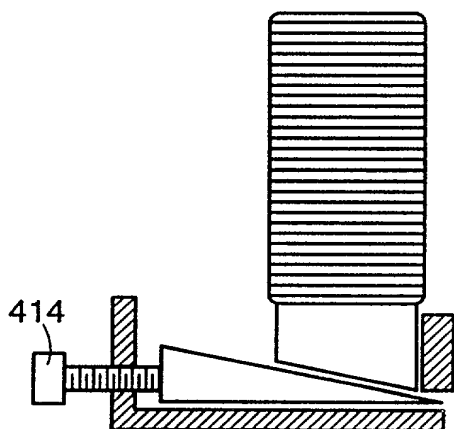


FIG. 19

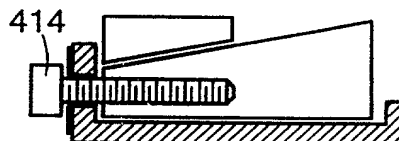


FIG. 20

K05060" 03600360

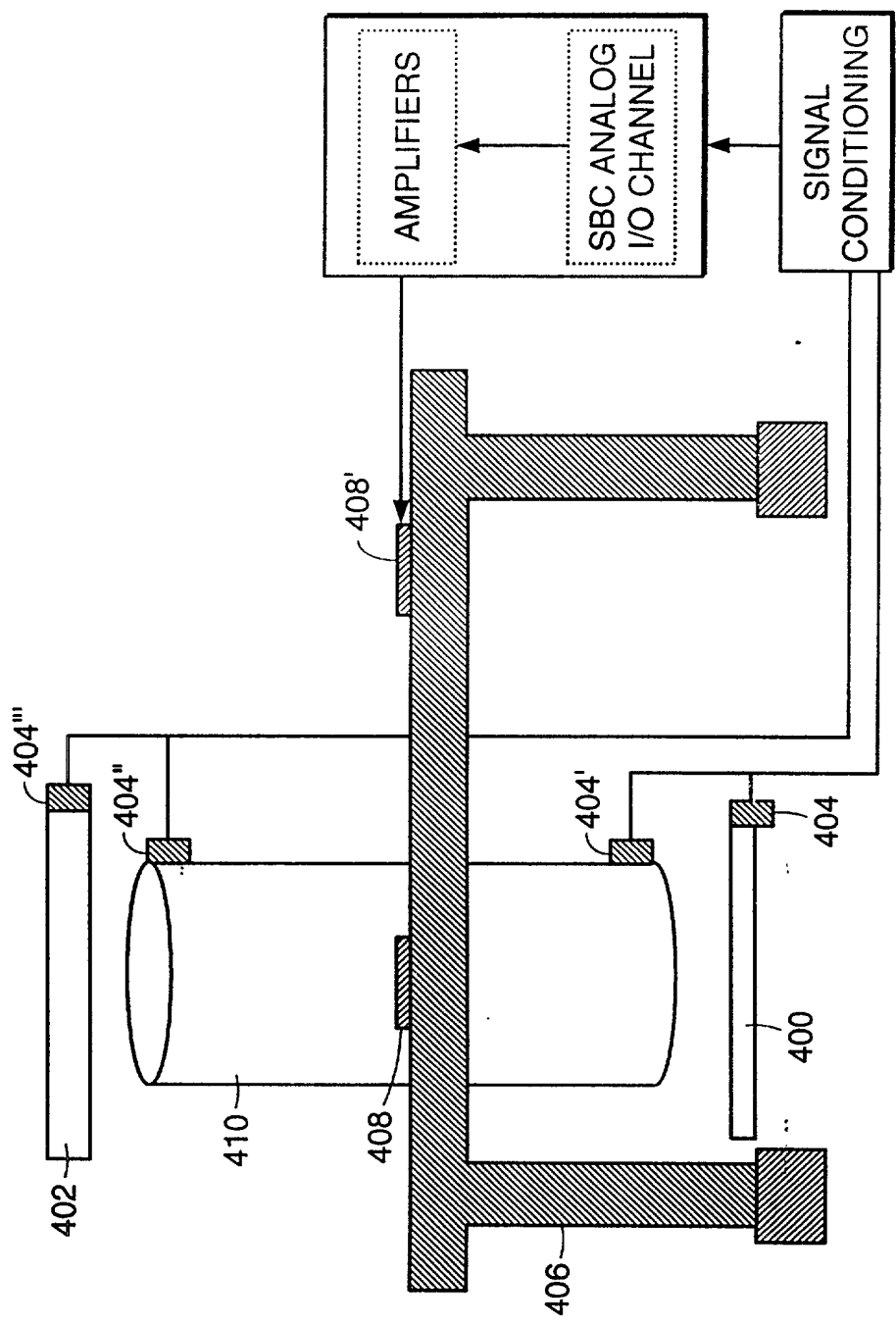
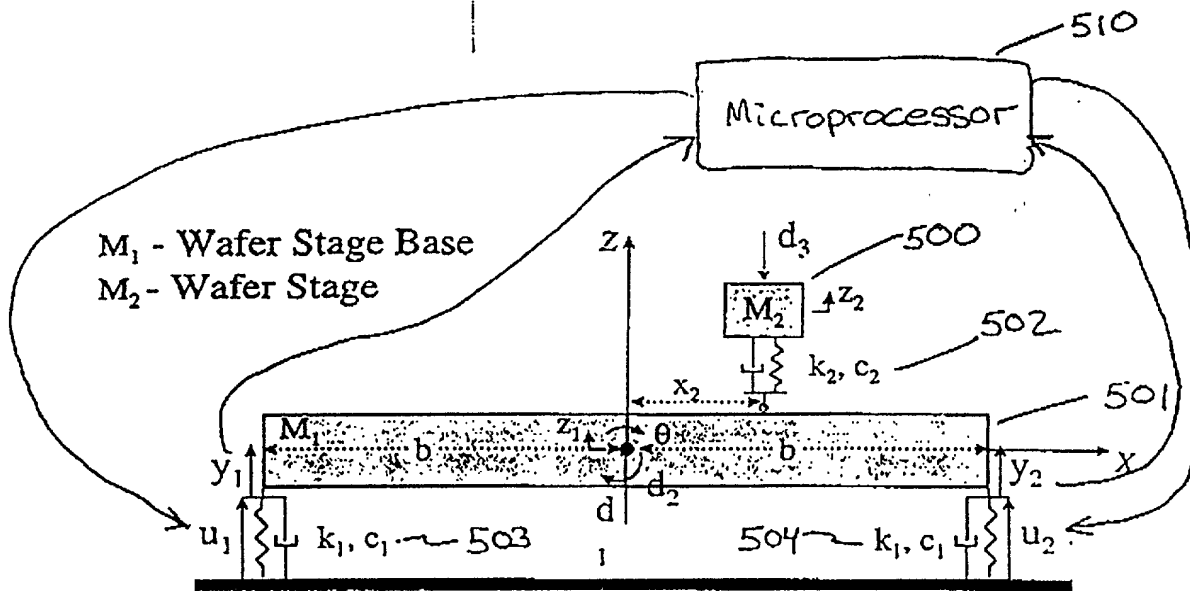


FIG. 21

Patented 03/06/2006



- Inputs (u_i): Voice Coil forces on base in Z
- Outputs (y_i): Laser displacement measurements collocated with voice coil inputs
- Disturbances (d_i): Z-force and θ moment on base, Z force on stage

FIG. 22

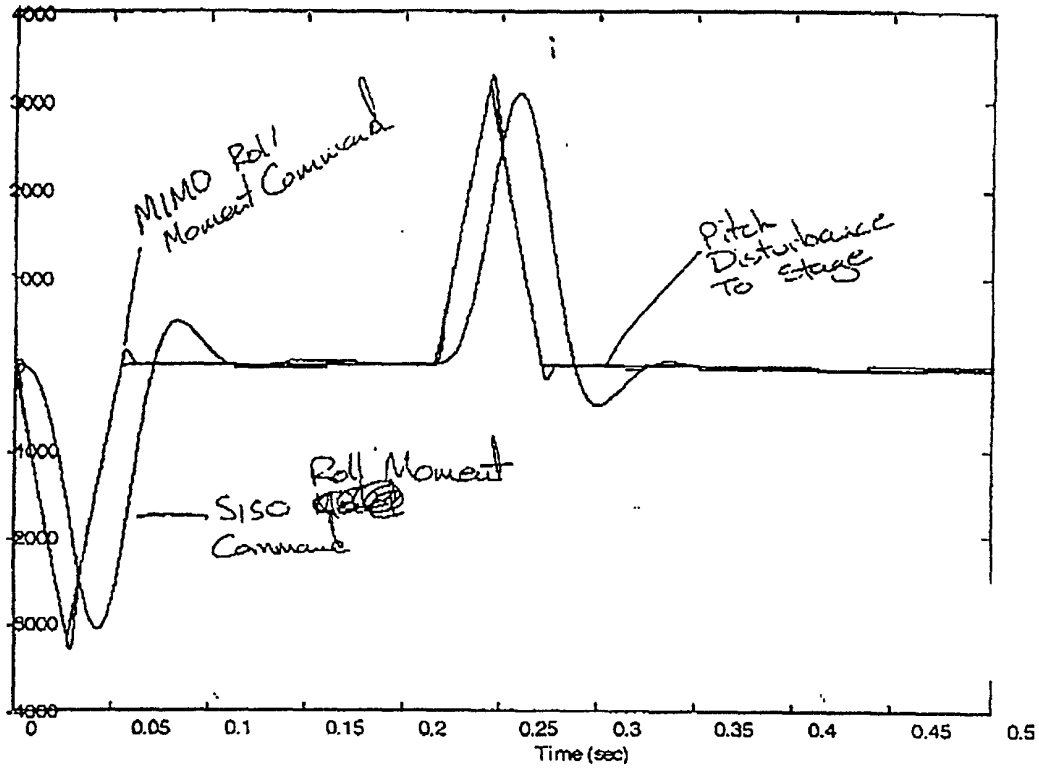


FIG. 23

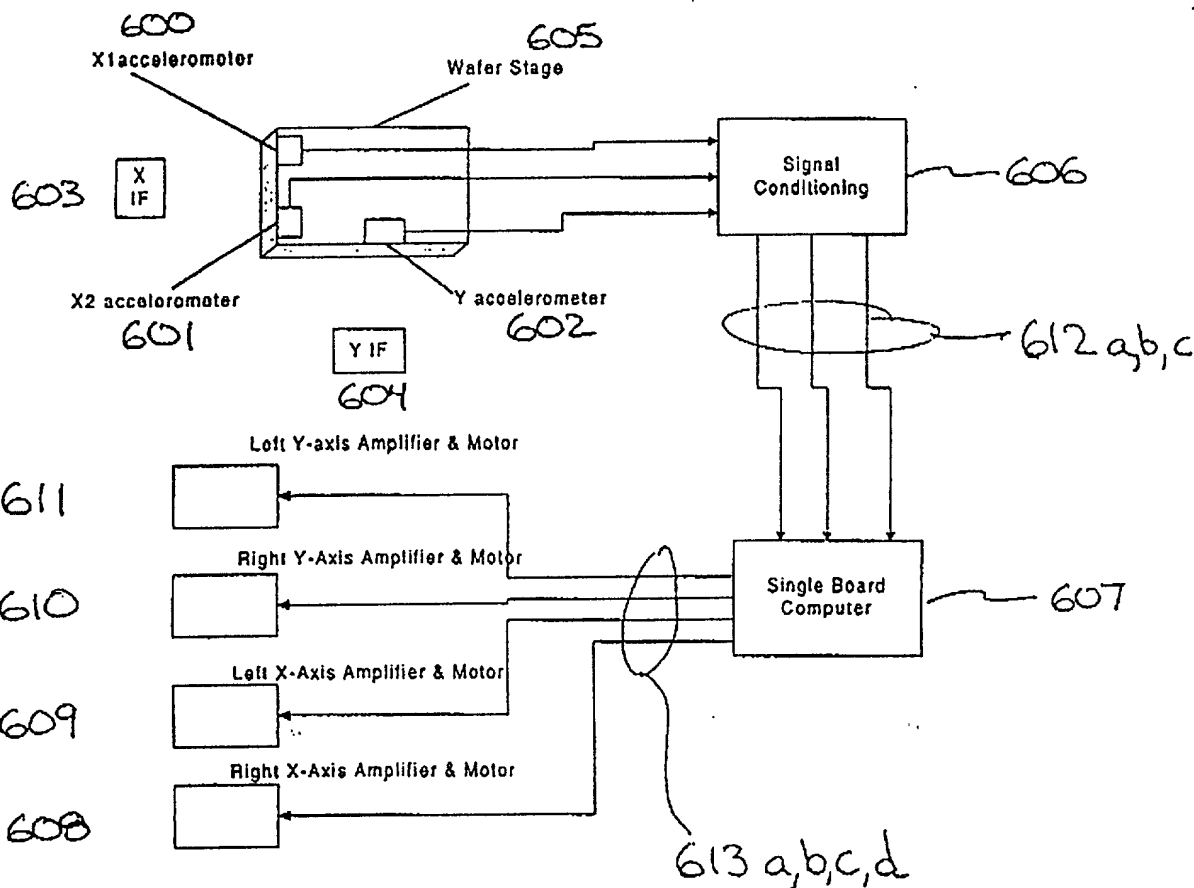


FIG. 24

FIG. 25

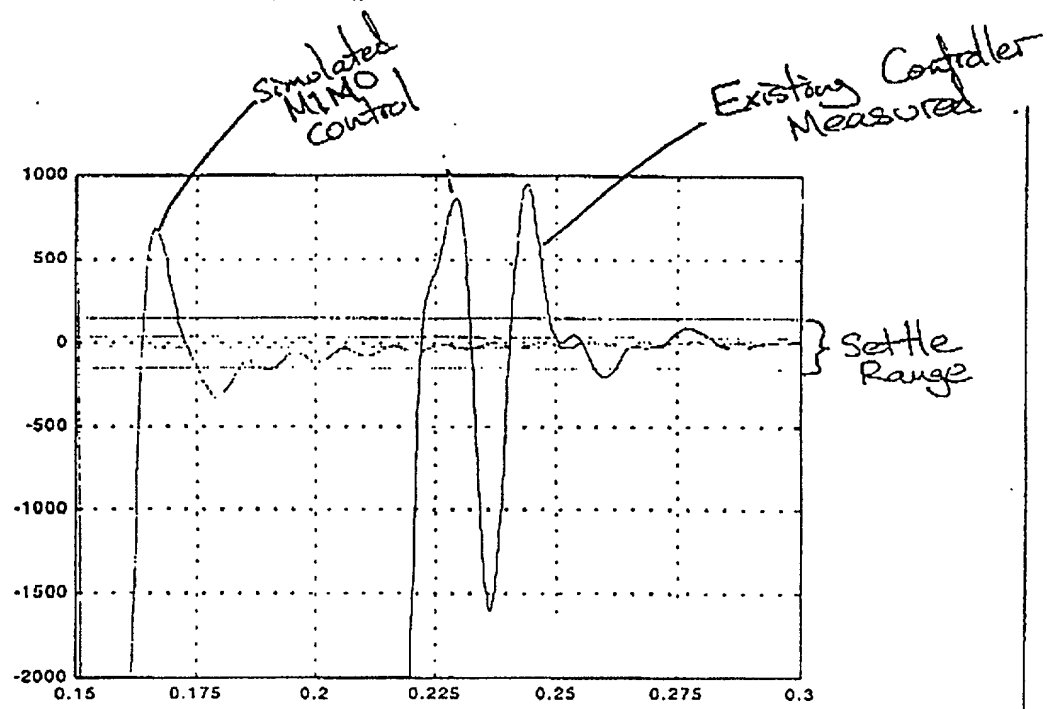


FIG. 26